SHARP

AR-C172M

Digital Full Colour Multifunctional System

Secure Full-Colour Performance for Today's Office Needs

Full Colour

····· be sharp

COPY | NETWORK PRINT | NETWORK SCAN OPTION | SHARPDESK™ OPTION

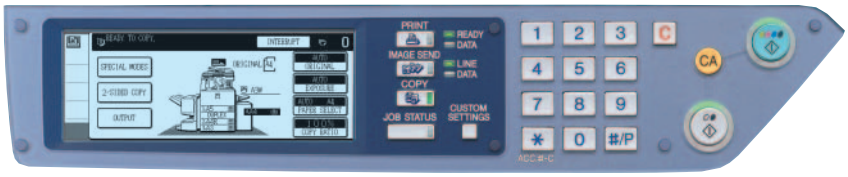
Enhanced performance with a world of colourful versatility

Keeping up with today's graphic-intensive office communications has never been easier with Sharp's AR-C172M that packs a world of colourful versatility and upgraded efficiency into one central location for all your office needs. In addition to high-performance functions that make copying, printing, and scanning faster and easier, the AR-C172M boasts a full range of creativity-enhancing functions for producing impressive colour documents, copies, and scans in-house with the exact look and finish you want. And with options available for network scanning and even data security, the AR-C172M brings you the high-speed, full-colour multifunction performance you need — and a whole lot more.

AR-C172M
Digital Full Colour Multifunctional System

User-Friendly Design

The AR-C172M's logically designed control panel features a wide, clear **touch-screen LCD** panel with easy-to-follow guidance that takes users step-by-step through the necessary procedures. A **universal design** concept makes the AR-C172M user-friendly for everyone from office equipment novices to the physically challenged. Features include easy-to-press and -feel indented keys and adjustable notification sounds.



Edge/centre erase

Saddle stitch finishing

Concaved keys

Key Features

High-Performance Copying and Printing

- Tandem printing engine provides speedy output of max. 17 ppm in full colour and 26 ppm in black & white
- Standard 40-sheet Reversing Single Pass Feeder (A4 or smaller)
- Productive collated copying/printing from memory for both colour and B/W
- Standard PCL5c and optional PS3 emulation
- Powerful network printing with network utilities
- Max. 5,750-sheet paper capacity for large-volume jobs
- HDD Job Queuing and Job Status Window on the LCD

Colour Network Scanning*

- Scan to e-mail/desktop/FTP server
- Sharpdesk™ provides integrated document management in over 200 file types
- LDAP compatibility for easy search and registration of e-mail addresses

Tandem printing engine

Professional Finishing Options

- Productivity-enhancing options including stackless duplex module
- Professional-looking job finishing including booklet making and punching
- Handles heavy paper stock up to 300 g/m²
- Accepts paper sizes up to A3 wide (12" x 18")

Superb Image Quality

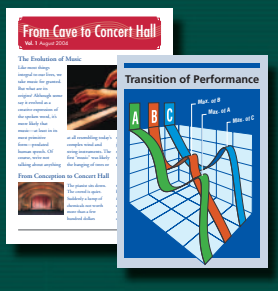
- 600-dpi printing with 4-bit colour imaging (equivalent to 256 gradations for each colour)
- Advanced image processing technology for consistent high quality
- Oil-less toner for non-glossy output

Layered Security

- IP/MAC address filtering prevents unauthorised access
- Optional Data Security Kit erases job data retained in memory and encrypts the data on the HDD to protect confidential information
- Secure Confidential Print uses PIN code verification
- User authentication for network scanning

* Options required for scanning.

Package design

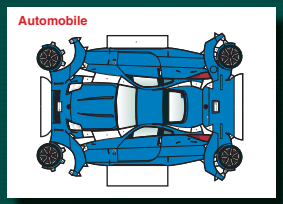


Newsletters

Presentation materials

POP displays

Posters



Papercrafts

COPYING AND PRINTING

Super-Efficient Colour and B/W Output

COPY PRINT

17 PPM 26 PPM

The tandem printing engine with four in-line drums helps the AR-C172M deliver a fast output of **17 cpm/ppm in full colour** and **26 cpm/ppm in B/W**. And the first copy comes out in just 11.7 seconds in full colour and 8.0 seconds in B/W. But speed is just one of the benefits of tandem printing; its short, straight paper path minimises misfeeds to save you paper and toner costs.

Convenient RSPF

COPY SCAN

With the standard-equipped **RSPF** (reversing single pass feeder), the AR-C172M can automatically feed in a stack of up to 40 single- or two-sided originals (A4 or smaller), eliminating the tedious task of placing and turning over each page by hand.

Duplex Copying/Printing

COPY PRINT

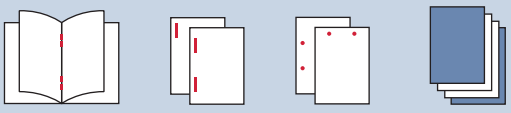
The AR-C172M can make **two-sided copies and printouts** when equipped with the optional duplex module and duplex bypass/inverter unit, effectively reducing paper costs as well as saving filing space. Auto duplexing is available for paper weights up to **200 g/m²**. This allows you, for example, to create impressive company brochures and business proposals by using thick paper for the cover.

Automated Job Finishing

COPY PRINT

The AR-C172M makes it easy to create professional-looking booklets. Working together with the highly productive stackless duplex module, the optional **Saddle Stitch Finisher** folds and staples sets of documents to make completed booklets. A **Punch Module** allows you to punch holes in documents for easy filing.

A Variety of Job Finishing Options



Saddle stitching | Stapling | Hole punching | Cover insertion

Large Paper Capacity

COPY PRINT

For high-volume work, the AR-C172M can accommodate an optional 3,500-sheet large-capacity tray and stand with 3 x 500-sheet paper drawers for a total capacity of **5,750 sheets**, helping to minimise the risk of running out of paper in the middle of a printing job.

Productive Collated Output from Memory

COPY

For efficient copying, the AR-C172M's Scan Once/Print Many and electronic sorting functions save each page of a multi-page original to internal memory. Then the AR-C172M automatically outputs **collated** job sets in proper page order, with each set **offset stacked** for easier retrieval.

Multi-page original | stored in memory... | ...and stacked offset

Superb Image Quality

COPY PRINT

600 dpi

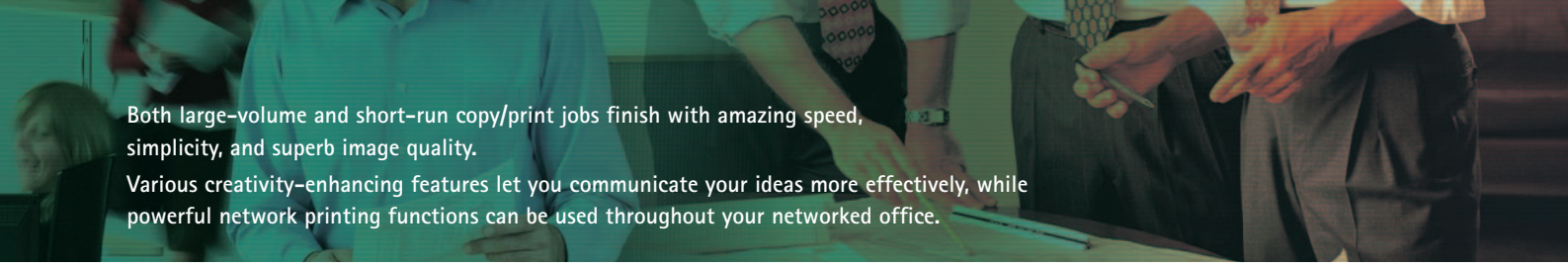
The AR-C172M's high 600-dpi scan/print resolution ensures that the details of your original document come out clear and legible. Employing a write head with Sharp's original **4-bit image processing LED**, the AR-C172M achieves superb colour fidelity equivalent to 256 gradations per CMYK (cyan, magenta, yellow, and black) colour, using the dither matrix process. You get beautiful printouts and copies with impressive colour detail.

Note: 1-bit only when copying with the electronic sorting function. Printing requires optional memory.

New Oil-Less Toner

COPY PRINT

Sharp's newly developed **oil-less toner** produces vivid, natural-looking colour documents without leaving a glossy coating on the paper's surface. You can easily write messages or paste sticky notes on copies and printouts even if they contain many colour photos.



Both large-volume and short-run copy/print jobs finish with amazing speed, simplicity, and superb image quality.
Various creativity-enhancing features let you communicate your ideas more effectively, while powerful network printing functions can be used throughout your networked office.

Versatile Paper Handling

The AR-C172M accommodates a wide range of paper sizes, from **A6R (5 ½" x 8 ½")** to **A3 wide (12" x 18")**. You can do A3 or 11" x 17" **full-bleed printing** onto A3-wide (12" x 18") paper, without loss of image area. And thanks to its tandem printing method, it can handle heavy paper stock up to **300 g/m²**, overhead transparencies, and other types of paper, further expanding the range of printing applications. Save time and money by creating packages, POP displays, and other promotional materials in-house.

Convenient Copy/Print Functions

The AR-C172M provides a number of cost- and labour-saving features. The **Multi-Shot copying** and **N-up printing** functions can place multiple pages onto a single sheet. **Pamphlet Style*** copies (or prints out) onto both sides of the paper in proper page order for making booklets easily, while **Cover Insertion** automatically inserts a coversheet into your copy or print job, eliminating manual labour.

*Optional AR-RB1, AR-F13, and AR-D19N required.

Pamphlet style

Image Editing Functions

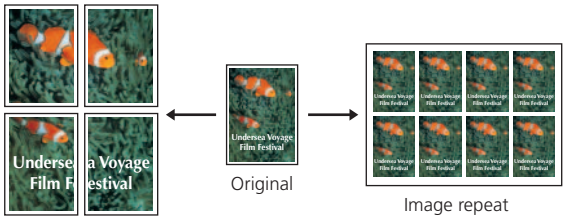
The AR-C172M includes colourful editing functions made possible by digital technology.

Multi-Page Enlargement divides an image onto separate sheets, allowing you to make poster-like copies up to A0 x 2 (44" x 68") in size.

Image Repeat places multiples copies of an image onto a single sheet.

Mirror Image makes a reverse image of the original — ideal for printing on transfer paper to make T-shirt iron-ons and stickers.

Please see back page for a list of available convenient functions.



Multi-page enlargement | Original | Image repeat

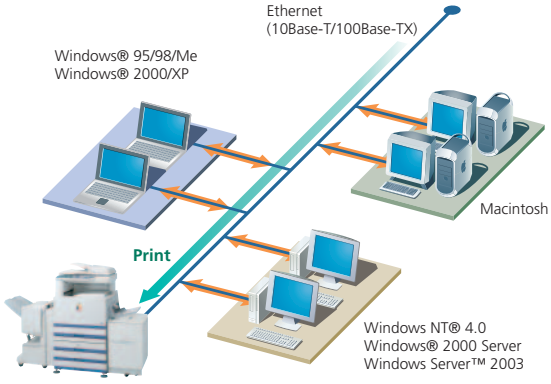
Other Key Features

- Quick warm-up time of 99 seconds minimises waiting time
- High-performance Power PC 7410-400 MHz CPU

Powerful Network Printing

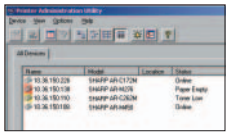
Supports Most Office Environments

- The AR-C172M can be used with most of today's popular operating systems, such as **Windows®** and **Macintosh***.
  *Requires optional AR-PK4 and AR-SM5 x 2.
- Thanks to the embedded **Network Interface**, the AR-C172M works as a powerful and versatile workgroup printer. You can extend the power of the AR-C172M to your entire office network. It also supports 100Base-TX and 10Base-T Ethernet standards and TCP/IP and IPX/SPX protocols. And by adding the optional **AR-PK4 PS3 Expansion Kit**, the AR-C172M supports AppleTalk and allows PostScript printing in the Macintosh OS.

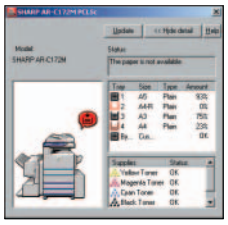


Network Utility Software (Windows® only)

- **Printer Administration Utility** makes printer networks easier to manage by allowing network administrators to customise monitored items and view settings such as the IP address directly from their PC.
- If the AR-C172M is low on paper or toner, the **Printer Status Monitor** will alert you in the form of easy-to-understand graphics, allowing you to avoid problems before they arise.



PAU



Printer Status Monitor

Job Queuing with Hard Disk

When the AR-C172M is in the process of printing, the **Job Queuing** function can accept up to 20 print jobs from PCs on your office network and store them on the hard disk. The **Job Status Window** displays the jobs in order on the LCD so you can easily check the status of your job in the queue.

(The Job Status Window can also display up to 99 jobs on hold for other jobs [copy, scan, etc.])

Job Status Window

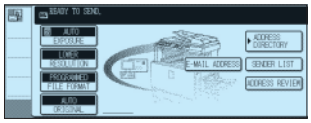
NETWORK SCANNING

Convert paper-based documents into digital files for easy editing, filing, and sharing.
Sharp's original Sharpdesk™ application enables easy, integrated document management.

A3 Colour Network Scanning

The optional AR-NS2 Scanner Expansion Kit turns the AR-C172M into a **full-colour network scanner** that can be used with any Windows PC on the network. Converting any type of paper-based document, up to A3 (11" x 17") in size, into an editable digital file is as easy as making a copy. Seamlessly integrating paper-based documents and digital files makes it easy to share data and improve workflow.

Note: Optional AR-SM5 also required.



Scan to Desktop, E-Mail or FTP Server

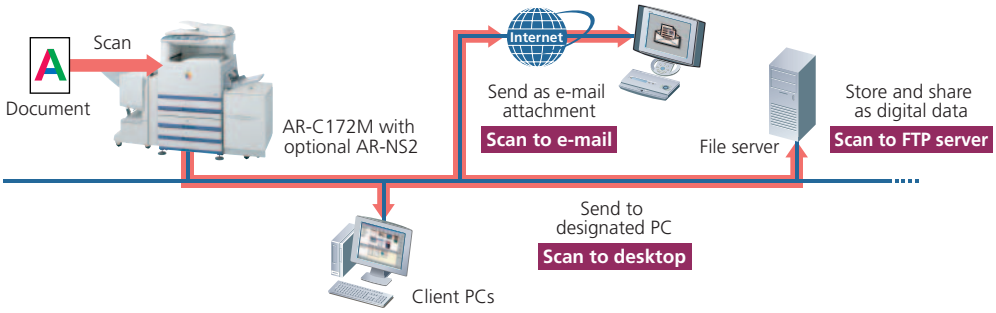
Files scanned with the AR-C172M can be sent directly to your PC* (scan to desktop), sent as an attachment to any e-mail address over the Internet (scan to e-mail) or stored on a file server where they can be easily accessed from any PC on the network (scan to FTP server).

*Sharpdesk™ document management software must be installed on the PC.

LDAP Compatibility for Network Scanning

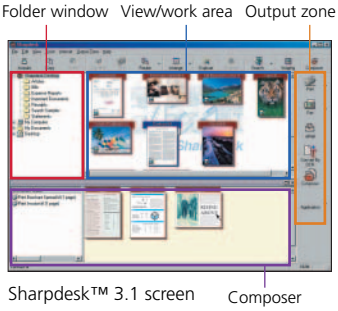
Built-in **LDAP** (lightweight directory access protocol) support eliminates the need to enter or register an entire e-mail address. Simply enter the first few letters of the recipient's name and the AR-C172M displays a list of possible matches from names and e-mail addresses on your company's LDAP server. This feature saves precious time and lets you avoid errors when typing e-mail addresses. After searching, selected addresses can be stored to the AR-C172M's address book.

And the integrated **User Authentication** function (see page 6) blocks unauthorised access by requiring the user to log in before searching for an address.

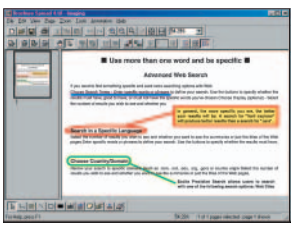


Sharpdesk™ for Total Document Management

Sharpdesk™ is an original Sharp application that provides integrated desktop management of documents in over **200 file formats**, including scanned paper-based documents and those created with popular applications such as Word. It allows you to organise, edit, search, and distribute your documents, all with simple drag-and-drop operation.



Sharpdesk™ 3.1 screen



Annotation function

- Intuitive desktop display features **thumbnail** viewing
- Sharpdesk Imaging provides **annotation** tools for paper-free proofreading
- Sharpdesk **Composer** combines different types of files into a single document
- **Optical character recognition** converts documents into editable text files
- **Output zone** distributes files to e-mail, printers, and other applications
- **File search** allows searching by file name, keyword, or thumbnail

Search screen

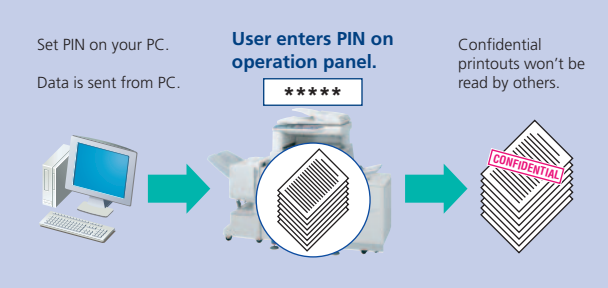
SECURITY

The AR-C172M provides several security solutions to protect your sensitive and confidential information from unauthorised persons.

Print Hold and Confidential Print

PRINT

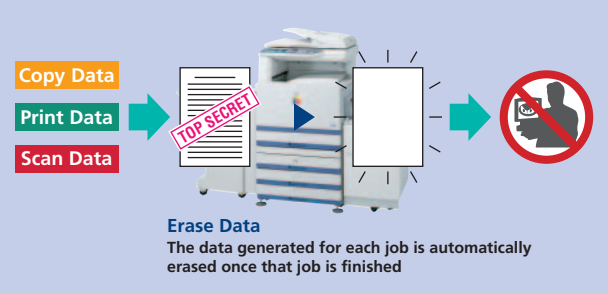
To keep others from seeing confidential documents as they are being printed out, the AR-C172M's **Print Hold** function stores print data on its hard disk and withholds output until the user executes a print command from the operation panel. For added security, the **Confidential Print** function requires the user to enter in a PIN (personal identification number) at the machine before printing can begin.


Set PIN on your PC.
Data is sent from PC.
User enters PIN on operation panel.
*****
Confidential printouts won't be read by others.
CONFIDENTIAL

Data Security Kit

COPY SCAN PRINT

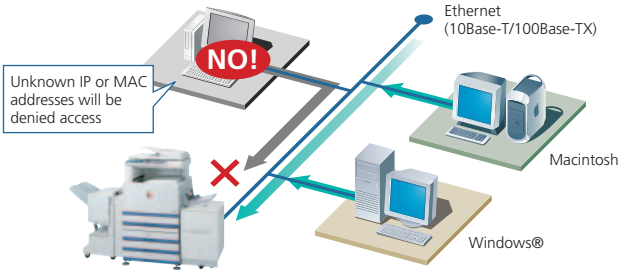
Digital copier/printers or multifunction products can retain hundreds of pages of confidential information from previous jobs on their hard disks or internal memory. To prevent these sensitive records from being recovered by unauthorised persons, the optional **Data Security Kit** enables the AR-C172M to automatically **erase** confidential data after each job is finished. What's more, all data that goes through the hard disk is automatically **encrypted**.


Copy Data
Print Data
Scan Data
TOP SECRET
Erase Data
The data generated for each job is automatically erased once that job is finished

IP/MAC Address Filtering

PRINT SCAN

The embedded Network Interface provides highly secure operation by restricting access to the AR-C172M on your office network. Only PCs that have either their **IP address** or **MAC (media access control) address** registered are allowed to use the AR-C172M. Attempted access from an unknown IP or MAC address will be denied, preventing unauthorised use.



User Authentication for Network Scanning

To prevent unauthorised use of network scanning, including using the LDAP function, the AR-C172M supports user authentication, which requires users to log in to the machine before performing any network scanning operations.

User authentication

Environmentally Conscious Design

- Conforming to the extremely high **Nordic Swan** environmental standards as well as the **Energy Star** programme, an international system identifying energy-efficient products, the AR-C172M has two levels of **energy-saving modes** to reduce or shut off electricity after a period of inactivity. These modes not only save running costs, but also help conserve natural resources and reduce environmental pollution.

- The AR-C172M uses **chromium-free** surface-treated steel sheet.

- A **colour image stabilising system** periodically monitors actual toner density and automatically makes adjustments to maintain image quality over a long period of time. This ensures consistent quality and **minimum paper waste**.

SPECIFICATIONS (tentative)

General

Type	Desktop
Paper size	Max. A3 wide (12" x 18"), min. A6R (5 1/2" x 8 1/2")
Paper weight*1	Plain paper: 64 to 105 g/m² (17 to 28 lbs.) Heavy paper: 106 to 300 g/m² (28+ to 80 lbs.)
Paper capacity*2	Standard: 750 sheets (500 + 250), max.: 5,750 sheets
RSPF capacity (max.)*2	40 sheets
Print/copy speed (max.)*3	Full colour: 17 cpm/ppm, B/W: 26 cpm/ppm
Warm-up time	99 sec. or less
First copy time*4	Full colour: 11.7 sec., B/W: 8.0 sec.
Power requirements	Rated local AC voltage ±10%, 50/60 Hz
Power consumption (max.)	1.44 kW (100V to 127V) 1.45 kW (220V to 240V)
Dimensions (W x D x H)	670 x 676 x 787 mm (26 3/8" x 26 5/8" x 30 63/64")
Weight (main unit only)	Approx. 75.5 kg (166.4 lbs.)

Copier

Original paper size	Max. A3 (11" x 17")
Continuous copy	Max. 999 copies
Resolution	Scan: 600 x 600 dpi, 600 x 300 dpi Print: 600 x 600 dpi
Memory	256 MB (upgradeable to 512 MB with options)
Gradation	Equivalent to 256 levels
Zoom range	50% to 200% in 1% increments, plus 25% and 400%
Preset copy ratios	10 ratios (5 reduction + 5 enlargement) 8 ratios (4 reduction + 4 enlargement) in inch system
Features*5	Scan Once/Print Many*6, electronic sorting, auto paper selection, auto magnification selection, paper type selection, auto tray switching, job memory (up to 10 jobs), pre-heat/auto power shut-off modes, margin shift, edge/centre erase, dual page copy, cover/transparency interleaving, mirror image, multi-page enlargement, centering, image repeat, A3 wide (12" x 18") printing, auto colour calibration/registration, rotation copy, copy auditing (200 accounts), key operator programme, multi-shot (4-in-1, 2-in-1), pamphlet copy, duplex copy, B/W reverse, XY zoom, customised preset ratios (2R + 2E), toner save mode (B/W), anti-counterfeit technology for bank notes

Network Scanner*7

Scanning size	Up to A3 size (11" x 17")
Scanning type	Push scan (via operation panel)
Resolution	Full colour: max. 300 dpi (max. 600 dpi with additional memory) B/W: max. 600 dpi
Scan destinations	Scan to e-mail, FTP server, and desktop
Destination selection	Built-in address book, global address search (LDAP)
File formats	Colour: PDF, JPEG B/W: PDF, TIFF
Network protocols	TCP/IP (SMTP, FTP)
Bundled utility	Sharpdesk™ ver. 3.1 with 10 user licenses

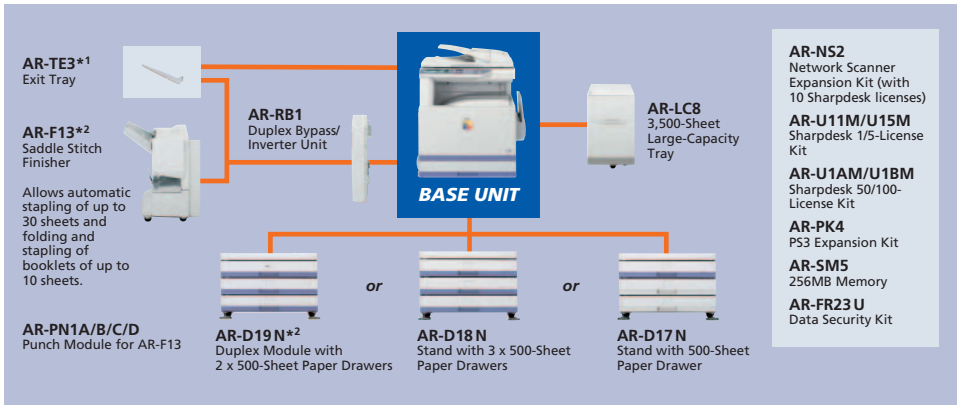
Network Printer

Resolution	600 dpi
Memory	Printer board: Standard 128 MB, max. 640 MB Hard disk: 40 GB
Supported OS	Windows® 95/98/Me, Windows NT® 4.0, Windows® 2000/XP Windows® 2000 Server, Windows Server™ 2003; Mac OS 8.6 to 9.2.2, Mac OS X 10.1.5, 10.2 to 10.3.4 (not 10.2.2)*8
Interface	10Base-T/100Base-TX, USB 1.1, IEEE 1284 parallel port
Compatible networks	Windows NT, NetWare, Macintosh
PDL emulation	PCL5c, PS3*8
Resident fonts	80 fonts, 136 fonts for PS*8
CPU	Power PC 7410-400 MHz
Network protocols	IPX/SPX for Novell environments, TCP/IP for Windows and UNIX environments, NetBEUI, AppleTalk for Macintosh environments*8
Printing protocols	Novell PSERVER/RPRINT for Netware, TCP FTP, LRP/LPD for Unix, IPP 1.0, NetBEUI, AppleTalk printing*8
Features*5 *9	RIP Once/Print Many, duplex print, N-up (2/4/6/8), face up/down output, pamphlet style, margin shift, watermarks, cover/transparency interleaving, fit to page, form overlay, job control (confidential/hold/proof), print auditing

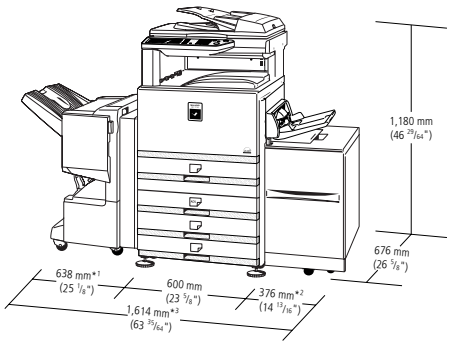
*1: 300 g/m² paper can be used for simplex printing when fed through multi-bypass feeder. Duplexing is available for paper weights up to 200 g/m². Special paper, such as heavy paper weighing 201 to 300 g/m², transparencies and envelopes, are output face-up on the left tray. *2: 80 g/m² paper. *3: Copy mode: When copying same document continuously on A4 (8 1/2" x 11") plain paper in non-offset mode. Print mode: When printing same document continuously on A4 (8 1/2" x 11") plain paper in non-offset mode, excluding processing time. *4: Without auto paper select mode, portrait feeding of A4 (8 1/2" x 11") sheets from 1st paper tray, output to side tray, group mode. *5: Some features require option(s). *6: Optional memory required for duplex colour copying of documents B4 (8 1/2" x 14") and larger in Quality mode (4-bit imaging). *7: For colour network scanning, optional AR-NS2 (version 3.1 and later) and AR-SM5 (256 MB memory) required. *8: Optional AR-PK4 and AR-SM5 x 2 required. *9: Some features are not available according to the printer driver used.

- Design and specifications are subject to change without prior notice.
- Some brand names and product names may be trademarks or registered trademarks of their respective owners.
- The Energy Star logo is a certification mark and may only be used to certify products that have been determined to meet the Energy Star programme requirements. Energy Star is a US registered mark. The Energy Star guidelines apply to products only in the US, Europe, Australia, New Zealand, and Japan.

SYSTEM CONFIGURATION



*1: Can be used with or without AR-RB1. *2: AR-RB1 required when using AR-F13 or AR-D19N. Some options may not be available in some areas.



Shown with options.

*1: 762 mm (30") with tray extended.
*2: 394 mm (15 33/64") with multi-bypass tray extended.
*3: Max. 1,756 mm (69 9/64") according to conditions *1 and *2.

SHARP
SHARP CORPORATION OSAKA, JAPAN

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